

Fig. 1

Extracellular domain (ECD) Signal sequence (1) MGHTRRQGTSPSKCPYLNFFQLLVLAGLSHFCSG--VIHVTKEVKEVATLSCGHNVSVEELAQTRIYWQKEKKMVLTMMS

SEQ:278_Human_B7-1

1 1 $\widehat{1}$ 7 1

1

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(1)1 7

7 (1)

1

 $\widehat{\Box}$

1

1 1 (1)

 $\widehat{\Box}$

SEQ:176_cd28A4-9 SEQ:068_R2_CD28BP-17 SEQ:174_cd28A12-5 SEQ:175_cd28a4-5star

1)

 $\widehat{\Box}$ (1) $\widehat{\Box}$ 1

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MGHTMKWGSLPPKRPCLMLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEELTSLRIYWRKDSKMXLAILP MGHTMKWGSLPPKCPCLMLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEELJSLRIYWQKDSKMVLAILP MGHTWKWGSLPPKRPCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEELTSLR1YWQKDSKMVLAILP MGHTMKWGSLPPKRPCLWLPQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEELTSLRIYWQKDSKMVLAILP

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MGHTMKWGSLPPKRPCLWLSQLLVL/TGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEEL/TSLRIYWQKDSKMVLAILP

MGHTLRPGTPLPRCLHLKLCLLLALAGLHFSSG---ISQVTKSVKEMAALSCDVNISIDELARMRIYWQKDQQMVLSIIS MGHTMKWGSL.PPKRPCLWLSQLLVLTGL.FYFCSGTTPKSVTKRVKETVMLSCDYNTSTEEL.TSLR1YWQKDSKMVLATL.P

MGHTWKWGSLPPKRPCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYSTSTEELTSLRIYWQKDSKMVLAILP MGHTMKWGSLPPKRPCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYSTSTEELTSLRIYWQKDSKMVLAILP

SEQ:177_cd28A6-9

SEQ:180_cd28A8-6 SEQ:181_cd28B2-8 SEQ: 178_cd28A6-1 SEQ:179_cd28A8-4 SEQ:182_cd28B4-3

SEQ: 183_cd28B6-3 SEQ: 184_cd28b6-6 SEQ:185_cd28b8-5star SEQ:186_cd28c11-5

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Fig. 2B

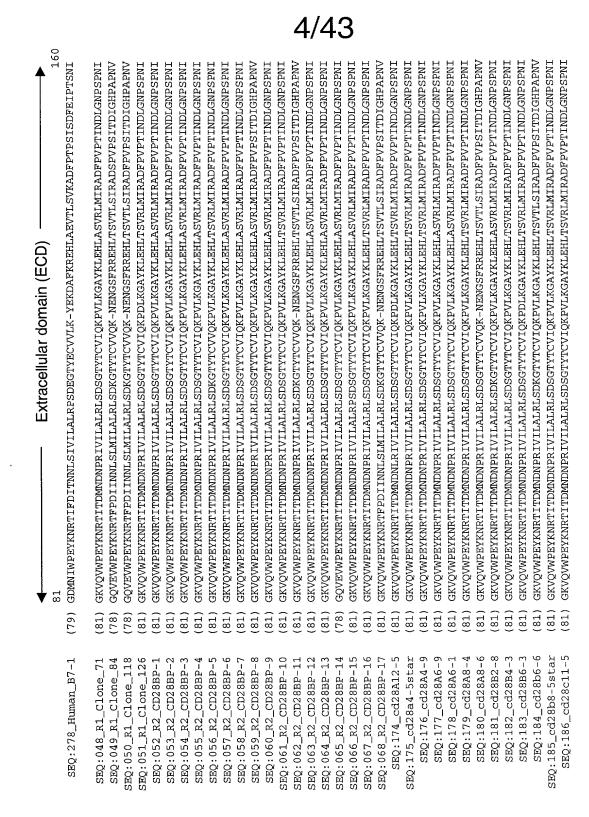


Fig. 2C

Fig. 2D

Fig. 2E

Fig. 2F

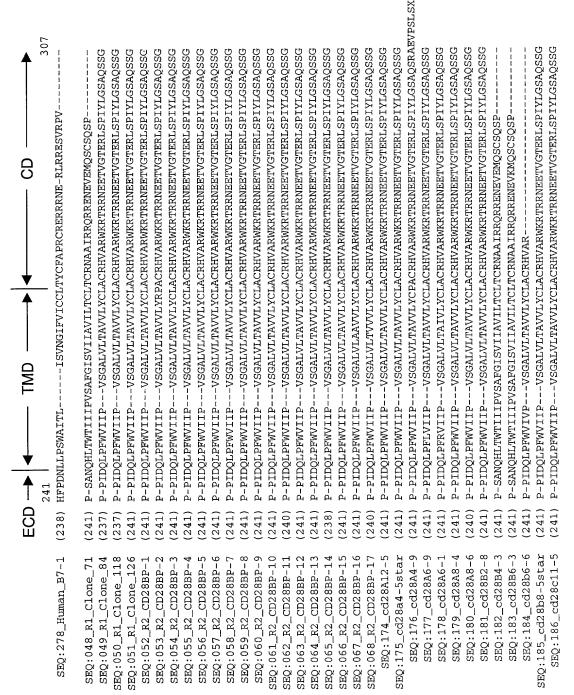


Fig. 2G

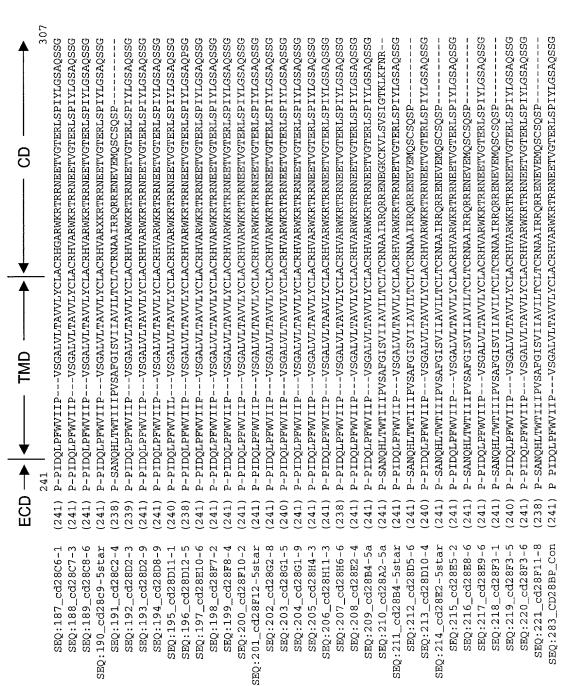


Fig. 2H

80 Extracellular domain (ECD) Signal sequence

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MGHTRRQGISPSKCPYLKFFQLLVLACLSHFCSGVIHVTKEVKEVATLSCGHNVSVEELAQTRIYWQKEKKMVLTMMSGD

(1)

(1) (1) (1)(1) (1) (1)

(1) (1) MSHTRRQGI SPSKCPYLNPPQLLVLASLSHFCSGVIHVTKEVKEVATILSCGLNVSVEELAQTR IYWQKEKKMVLTMMSGD MGHTRRQGISPPKCPYINFPQLLVLACLSHFCSGVIHVTKEVKEVATISCGHNVSVEELAQTRIHWQKEKKMVLTMMSGD

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MGHTRRQGISPSKCPYLKFFQLLVLAGLSHFCSGVIHVTKEVKEVATLSCGHNVSVEELAQTR IHWQKEKKMVLTMMSGD

MSHTRRQGISPSKCPYLKFFQLLVLACLSHFCSGVIHVTKEVKEVATLSCGHNVSVEELAQTRIHWQKEKKMVLTMMSGD

MSHTRRQGISPSKCPYLKFFQLLVLASLSHFCSGVIHVTKEVKEVATLSCGHNVSVEELAQTRIHWQKEKKMVLTMMSGD MGHTRRQGTSPSKCPYLKFPQLLVLACLSHFCSGVIHVTKEVKEVATLSCGHNVSVEELAQTR IHWQKEKKMVLTMMSGD MGYTRRQGTSPSKCPYLKFFQLLVLACLSHFCSGVIHVTREVKEVATLSCGHNVSVEELAQTRIHWQKEKKMVLTMMSGD

MSHTRRQGTSPSKCPYLKFFQLLVLASLSHFCSGVIHVTKEVKEVATLSCGLNVSVEELAQTR1YWQKEKKMVLTMMSGD

SEQ:278_Human_B7-1

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SEQ:084_R2_CTLA4BP-5x3-6f SEQ: 085_R2_CTLA4BP-5x4-11d SEQ:088_R2_CTLA4BP-5x5-2e SEQ:089_R2_CTLA4BP-5x5-6e SEQ:090_R2_CTLA4BP-5x6-9d SEQ:091_R2_CTLA4BP-5x8-1f SEQ:092_R2_CTLA4BP-5x9-12c SEQ:086_R2_CTLA4BP-5x4-12c SEQ:087_R2_CTLA4BP-5x4-1f

SEQ:222_ctla5x9d10 SEQ:223_ctla5x6f6 SEQ:225_ctla5x5c10 SEQ:224_ctla5x5h12

10/43 MSHTRRQGISPSKCPYLNFFRLLVLASLSHFCSGVIHVTKEVKEVATLSCGHNVSVEELAQTRIHWQKEKKMVLTMMSGD MSHTRRQGTSPSKCPYLKFFQLLVLASLSHFCSGVIHMTKEVKEVATLSCGHNVSVEELAQTRIYWQKEKKMVLTMMSGD MGYTRRQGISPSKCPYLKFPQLLVLACLSHFCSGVIHVTKEVKEVATLSCGHNVSVEELAQTRIYWQKEKKWVLTMMSGD MSHTRRQGISPSKCPYLKFFQLLVLACLSHFCSGVIHVTKEVKEVATLSCGHNVSVEELAQTRIYWQKEKKMVLTMMSGD MGHTRRQGISPSKCPYLKFFQLLVLACLSHLCSGVIHVTKEVKEVATLSCGLNVSVEELAQTRIHWQKEKKMVLTMMSGD MGHTRRQGISPSKCPYLKFFQLLVLACLSHFCSGVIHVTKEVKEVATLSCGLNVSVEELAQTRIHWQKEKKMVLTMMSGD MGHTRRQGISPSKCPYLKFFQLLVLAGLPHLCSGVIHVTKEVKEVATLSCGHNVSVEELAQTRIHWQKEKKMVLTMMSGD MSHTRRQGTSPSKCPYLKFFQLLVLAGLSHLCSGVIHVTKEVKEVATLSCGHNVSVEELAQTRIHWQKEKKMVLTMMSGD MGHTRRQGISPSKCPYLNFFQLLVLACLSHFCSGVIHVTKEVKEVATLSCGHNVSVEELAQTRIHWQKEKKMVLTMMSGD MGHTRRQGTSPSKCPYLNFFQLLVLACLSHFCSGVIHVTKEVKEVATLSCGHNVSVEELAQTRIHWQKEKKMVLTMMSGD MSHTRRQGTSPSKCPYLKFFQFLVLASLSHFCSGVIHVTKEVKEVATLSCGLNVSVEELAQTRIYWQKGKKMVLTMMSGD MGYTRRQGISPSKCPYLKFFQLLVLASLSHFCSGVIHVTKKVKEVATLSCGHNVSVEELAQTRIHWQKEKKMVLTMMSGD MSHTQRQGISPSKCPYLNFFQLLVLASLSHFCSGVIHVTKEVKEVATLSCGHNVSVEELAQTRIYWQKEKKMVLTMMSGD MGHTRRQGISPSKCPYLNFFQLLVLAGLSHFCSGVIHVTKEVKEVATLSCGHNVSVEELAQTRIYWQKGKKMVLTMMSGD MGHTRRQGTSPSKCPYLKFFQLLVLAGLSHFCSGVIHVTKEVKEVATLSCGHNVSVEELAQTRIHWQKEKKMVLTMMSGD MGHTRRQGTSPSKCPYLKFFQLLVMACLSHFCSGVIHVTKEVKEVATLSCGHNVSVEELAQTRIHWQKEKKMVLTMMSGD MGYTRROGTSPSKCPYLKFFOLLVLASLSHFCSGVIHVTKEVKEVATLSCGHNVSVEELAQTPIYWQKEKKMVLTMMSGD (1)(1) (1) (1)(1) (1)(1)(1) (1) (1) (1)1) (1) 1) (1)

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1/43

Fig. 3B

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(1)

SEQ:286_CTLA4BP_Con

Fig. 3C

Fig. 3D

Fig. 3E

Fig. 3F

DNLLPSWAITLISANGIFVICCLTYRFAPRCRERRNERLRRESVCPV DNIL PSWAITLISANGIFVICCLTHCFAPRCRERKRNERLRRESVRPV DNLLPSWAITLISVNGIFVICCLTYCFAPRCRERKSNERLRRESVRPV DNLL PSWAITLISVNGIFVICCLTHCFAPRCRERRNERLRRESARPV DNLLPSWAITLISVNGIFVICCLTYCFAPRCRERRNGRLRRESVRPV DNLLPSWAITLISVNGIFVICCLTYCFAPRCRERRNERLRRESVHPV DNLLPSWAITLISVNGIFVICCLTYCFAPRCRERRNERLRRESVCPV DNLLPSWAITLISVNGIFVICCLTYCFAPRCRERRRNETLRRESVRPV DNLLPSWAITLISVNGIFVICCLTYCFAPRCRERRNERLRRESVRPV (241) DNLLPSWAITLISVNGIFVICCLTYCFAPRCRERRNERLRRESVRPV DNPL PSWAITLISANGIFVICCLTYCFAPRCRERRRNETLRRESVRPV DNLLPSWAITLISVNGIFVICCLTYRFAPRCRERKSNERLRRESVRPV DNLLPSWAITLISANGIFVICCLTYCFAPRCRERRRNERLRRESVRPV DNLL PSWAITLISANGIFVICCLTYCFAPRCRERKSNERLRRESVHPV DNLLPSWAITLISANGIFVICCLAYCFAPGCRERKSNERLRRESVRPV DNLL PSWAITLISVNGIFVICCLTYCFAPRCRERKSNERLRRESVRPV DNLLPSWAITLISVNGIFVICCLTYCFAPRCRERRNETLRRESVRPV DNLLPSWAITLISANGIFVICCLTYCFAPRCRERKSNETLRRESVRPV DNLLPSWAITLISVNGIFVICCLTYCFAPRCRERRNERLRRESVCPV DNLLPSWAITLISVNGIFVICCLTYCFAPRCRERRNERLRRESVHPV DNLL PSWAITLISVNGIFVICCLTYCFAPRCRERRSNERLRRESVRPV DNLLPSWAITLISVNGIFVICCLTYRFAPRCRERKSNERLRRESVRPV DNLLPSWAITLISANGIFVICCLTYRFAPRCRERKSNETLRRESVRPV DNLLPSWAITLISVNGIFVICCLTYCFAPRCRERRNERLRRESVRPV DNLLPSWAITLISVNGIFVICCLTYCFAPRCRERRRNERLRRESVRPV DNLL PSWAITLISVNGIFVICCLTHCFAPRCRERRNERLRRESVHPV DNLLPSWAITLISANGIFVICCLTYCFAPRCRERKSNERLRRESVRPV DNLLPSWAITLISVNGIFVICCLTYCFAPRCRERR-NETLRRESVRPV DNLL PSWAITLISANGIFVICCLTYCFAPRCRERRNERLRRESVHPV (241)SEQ:080_R2_CTLA4BP-5x2-7b SEQ:082_R2_CTLA4BP-5x3-10e SEQ:085_R2_CTLA4BP-5x4-11d SEQ:087_R2_CTLA4BP-5x4-1f SEQ:089_R2_CTLA4BP-5x5-6e SEQ:091_R2_CTLA4BP-5x8-1f SEQ:222_ctla5x9d10 SEQ:224_ctla5x5h12 SEQ:225_ctla5x5c10 SEQ:083_R2_CTLA4BP-5x3-11b SEQ:084_R2_CTLA4BP-5x3-6f SEQ:086_R2_CTLA4BP-5x4-12c SEQ:088_R2_CTLA4BP-5x5-2e SEQ:090_R2_CTLA4BP-5x6-9d SEQ:223_ctla5x6f6 SEQ:278_Human_B7-1 SEQ:069_R1_CTLA4BP-5 SEQ:072_R1_CTLA4BP-13 SEQ:074_R2_CTLA4BP-5x2-10c SEQ: 075_R2_CTLA4BP-5x2-11d SEQ:076_R2_CTLA4BP-5X2-12F SEQ:077_R2_CTLA4BP-5x2-2g SEQ:078_R2_CTLA4BP-5x2-3c SEQ:079_R2_CTLA4BP-5x2-4c SEQ:081_R2_CTLA4BP-5x2-8c SEQ: 092_R2_CTLA4BP-5x9-12c SEQ:070_R1_CTLA4BP-7 SEQ:071_R1_CTLA4BP-11 SEQ: 073_R1_CTLA4BP-27

Fig. 3G

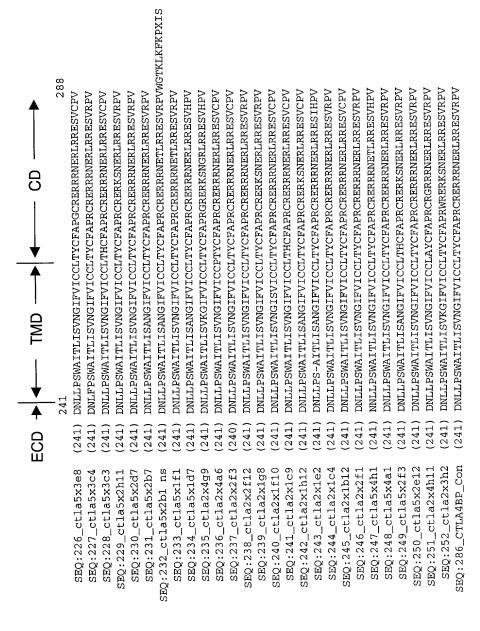


Fig. 3H

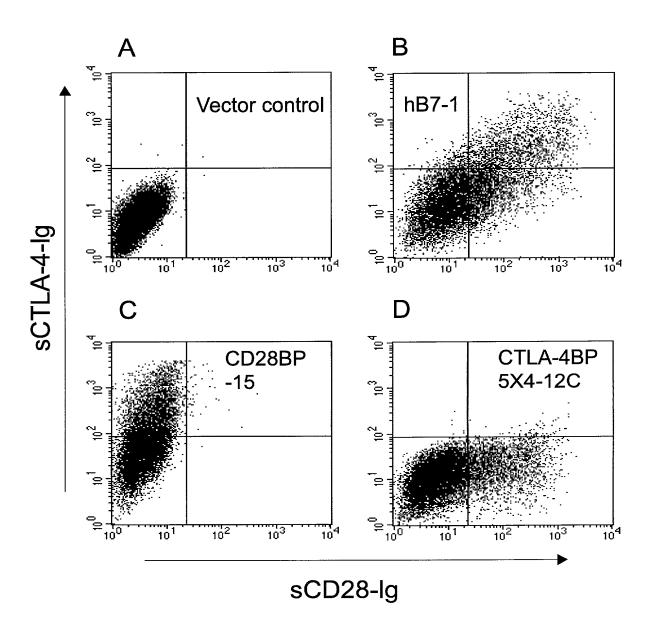


Fig. 4

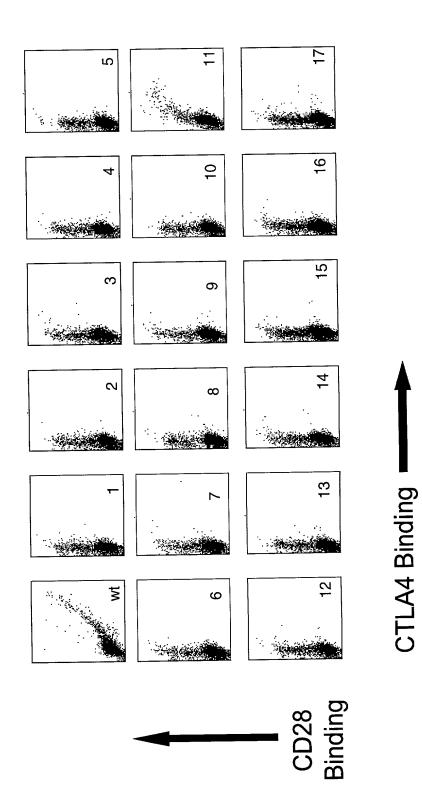
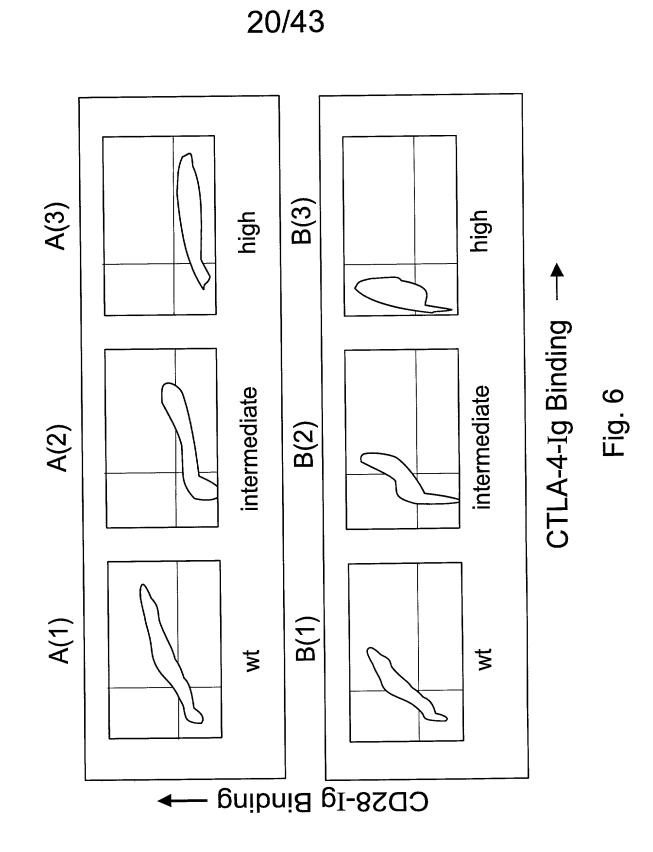


Fig. 5



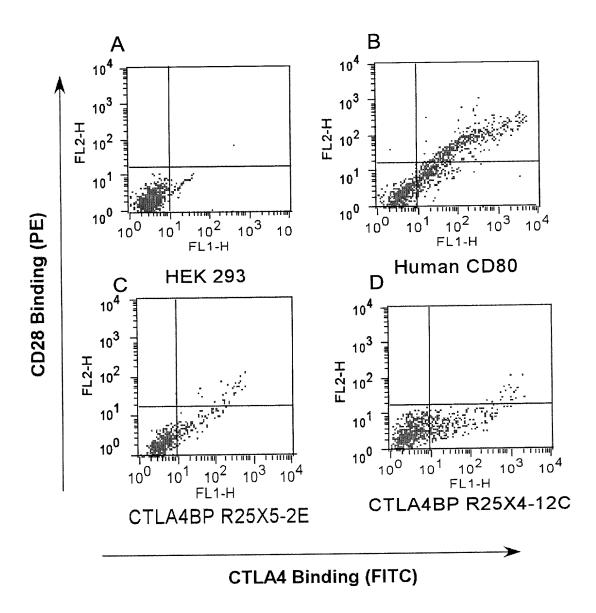


Fig. 7A-D

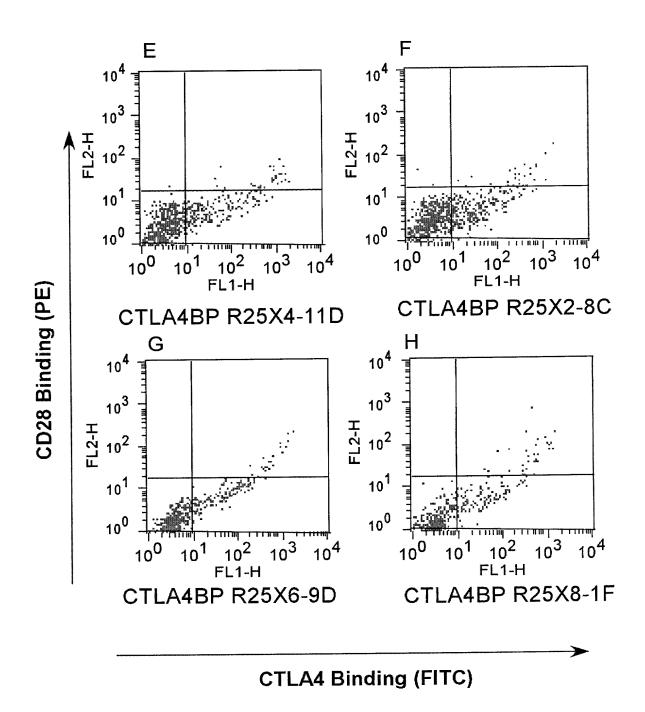


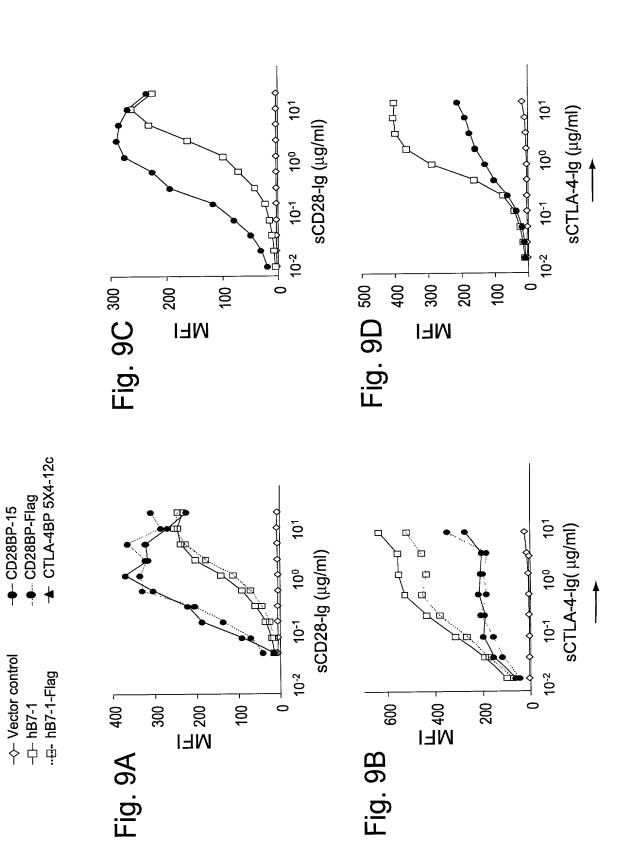
Fig. 7E-H

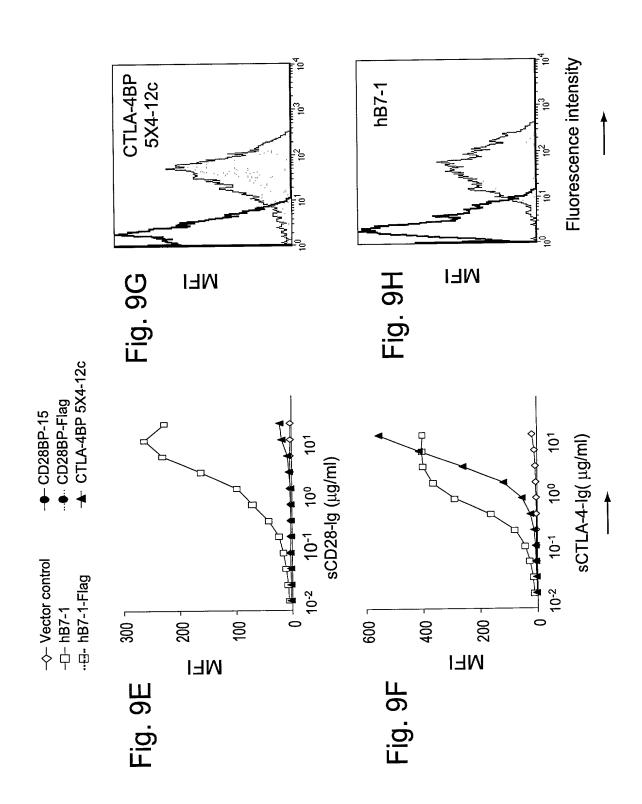
Fig. 8A

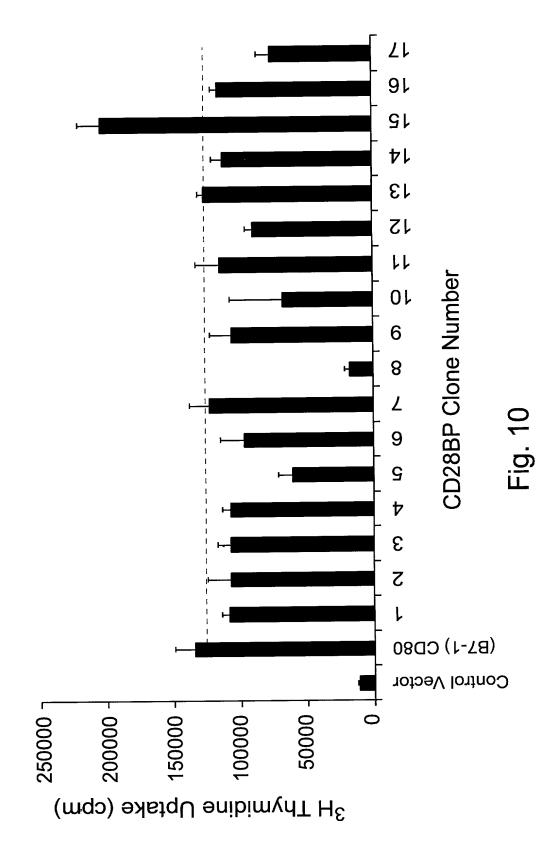
RIĤWQKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYEKDAF KREHLAEVMLSVKADFPTPSISDFEIPPSNIRRIICSTSGGFPEPHLFWLENGEELNAINTTVSQ DPETELYTVSSKLDFNMTTNHSFMCLIKYGHLRVNQTFNWNTPKQEHFPDNLLPSWAITLISA MGHTRROGTSPSKCPYLŔFFQLLVLAGLSHFCSGVIHVTKEVKEVATLSCGHNVSVEELAQT NGIFVICCLTYRFAPRCRERKSNETLRRESVRPV CTLA-4BP

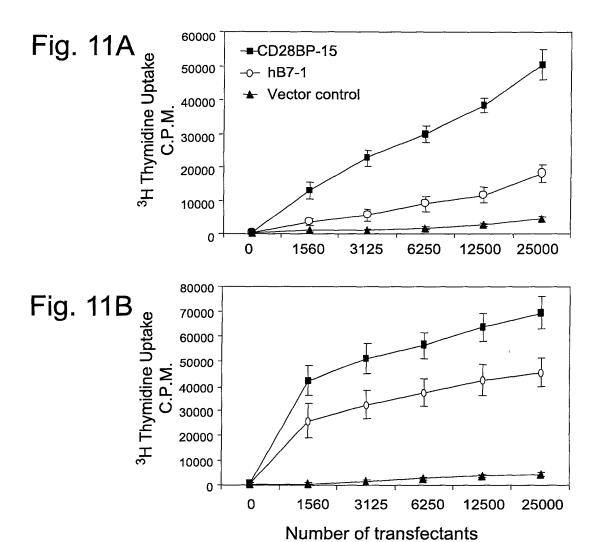
Fig. 8B

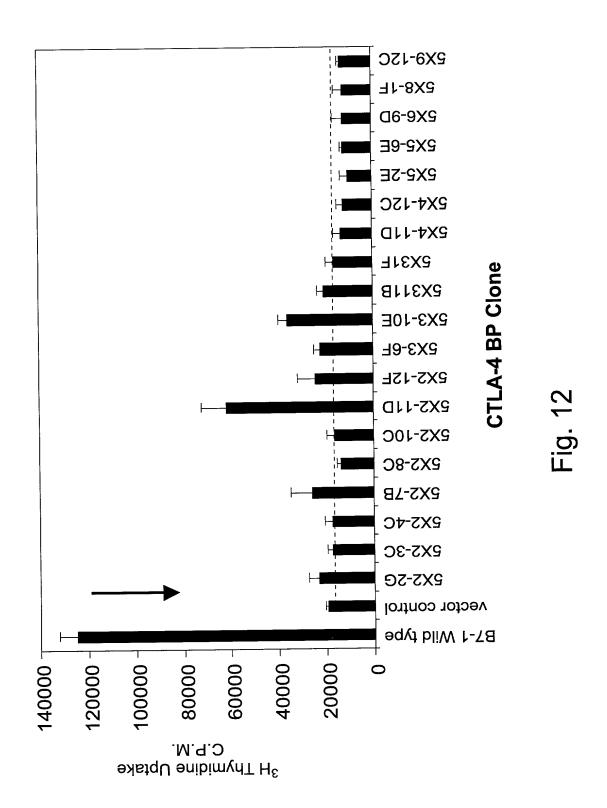
TVSQDPĞTELYMİSSELDFNVTNNHSİVCLIKYGELSVŞQİFPWŞKPKQEPPIDQLPFWVIIPVS *** \$LRIYWQKD\$KMVLAILPGKVQVWPEYKNRTITDMNDNPRIVILALRPSD\$GTYTCVIQKPVLK MGHTMKWGSLPPKRPCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEEL CD28BP

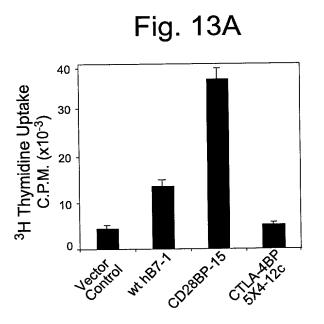


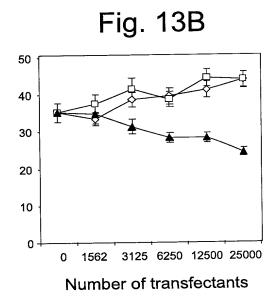


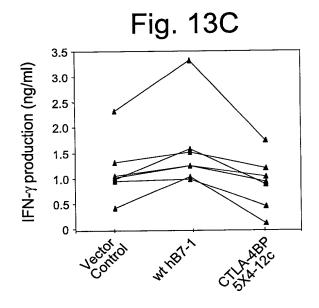












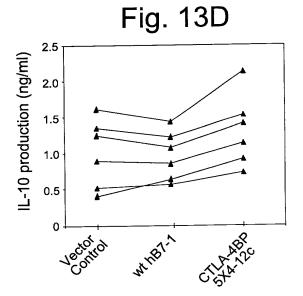


Fig. 14A

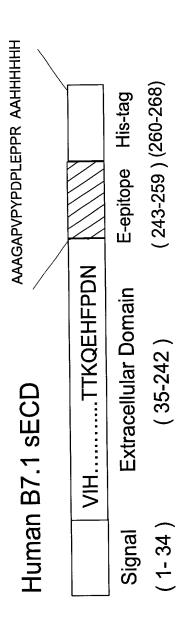


Fig. 14B

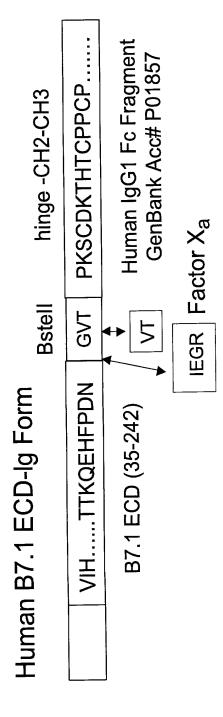


Fig. 15

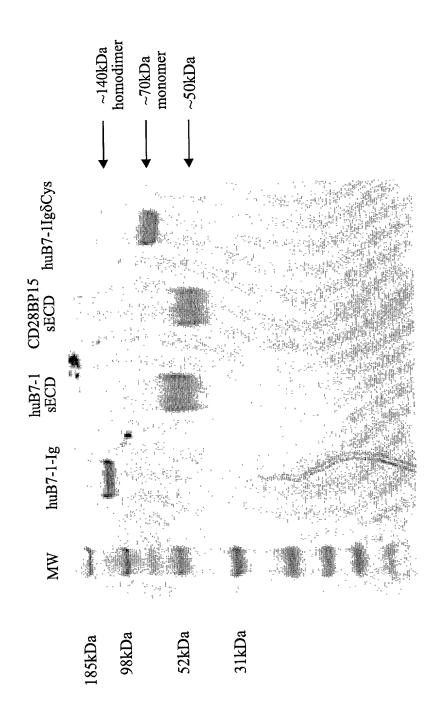


Fig. 16

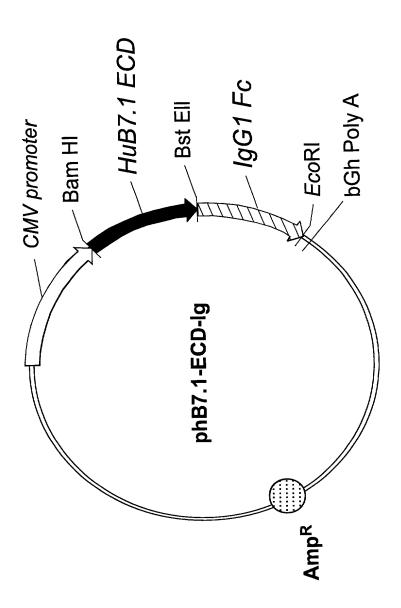


Fig. 17

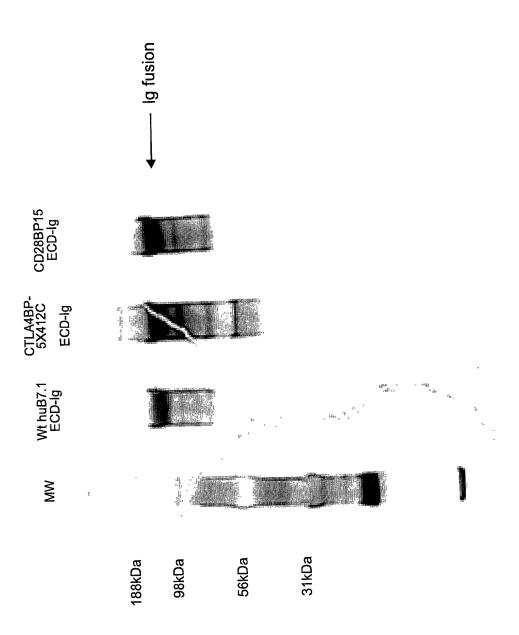


Fig. 18

Expression of CTLA-4BP-Ig and CD28BP-Ig Proteins

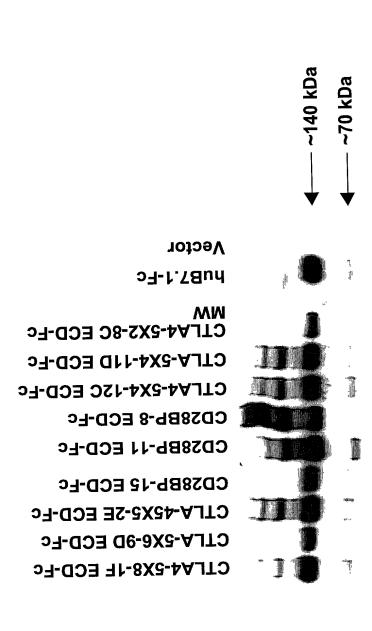


Fig. 20A

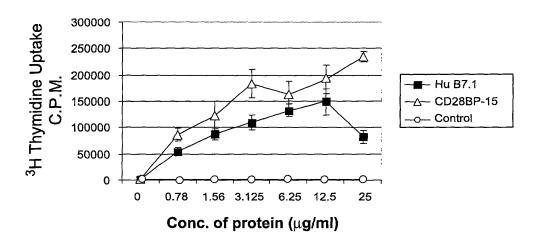
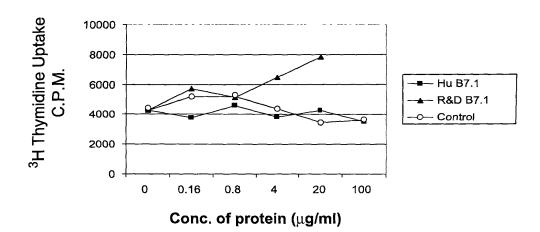


Fig. 20B

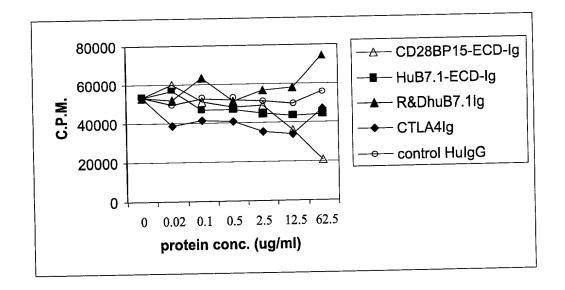


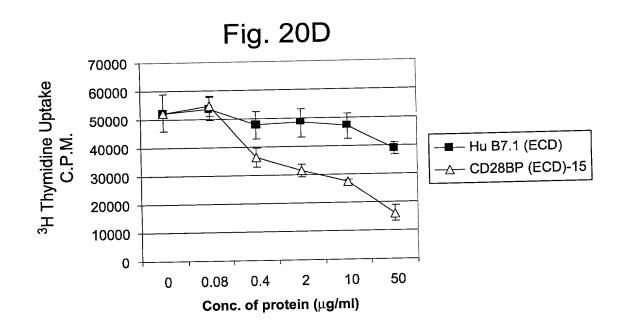
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Fig. 20C





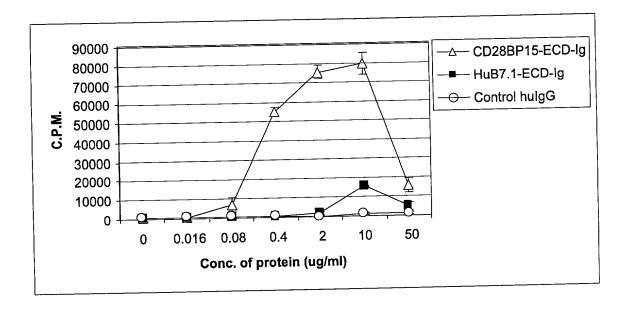


Fig. 20E

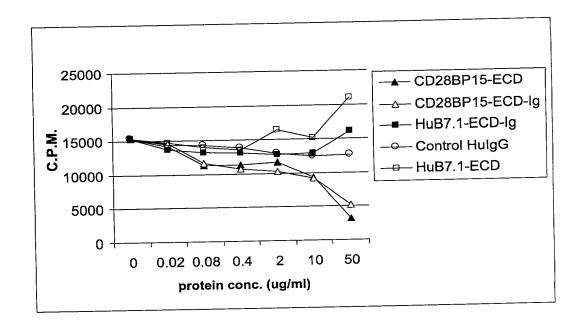


Fig. 20F

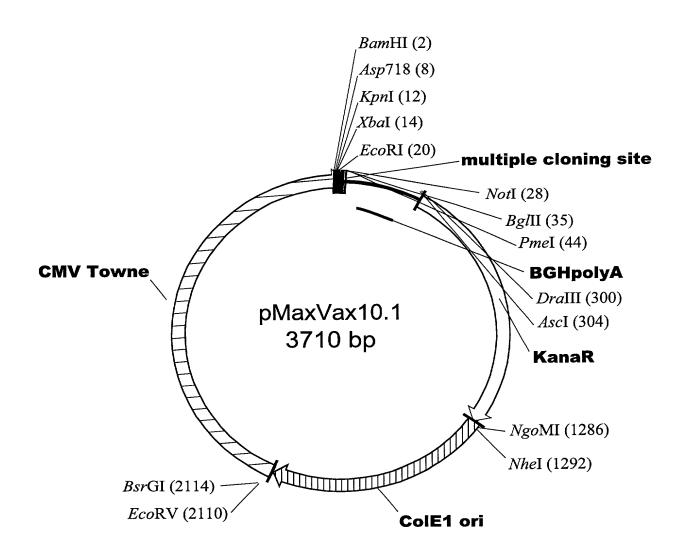


Fig. 21

Fig. 22A

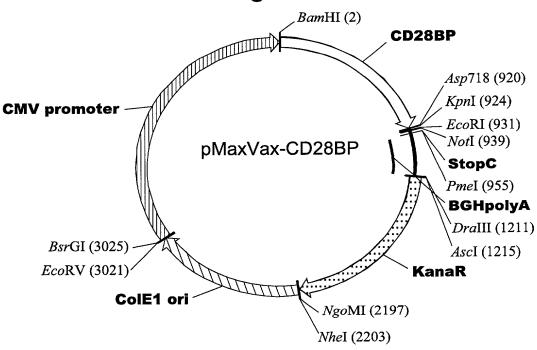
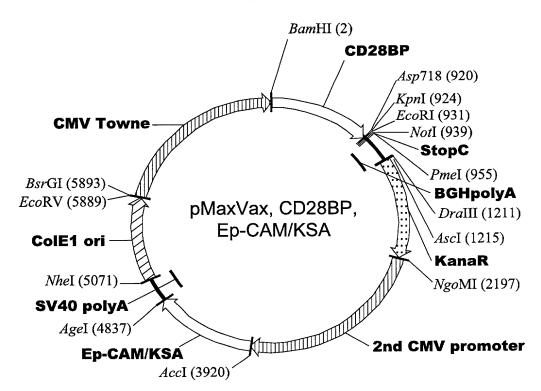


Fig. 22B



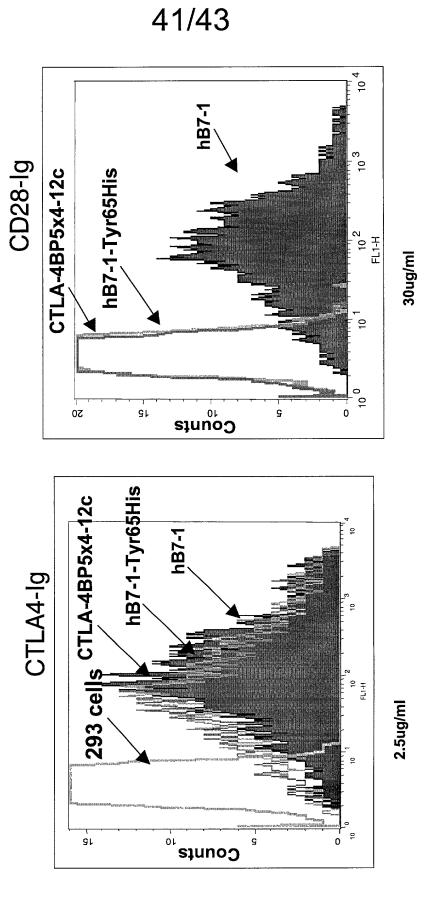


Fig. 23A

Fig. 23B

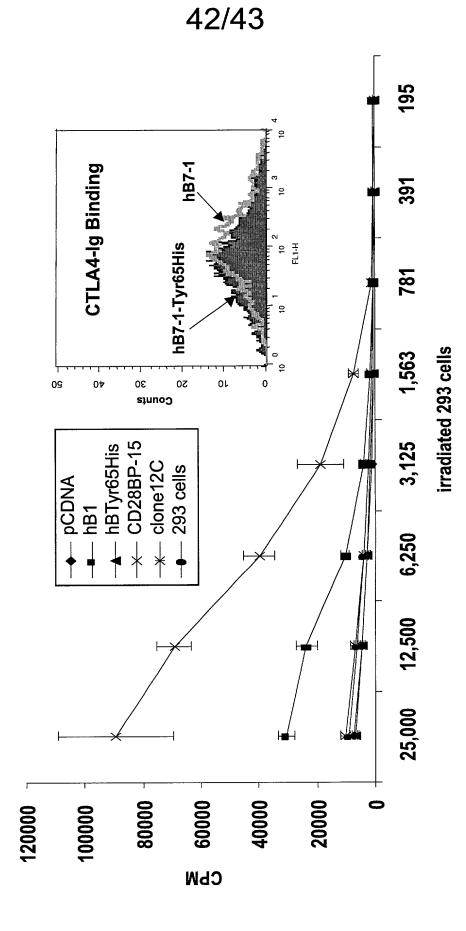


Fig. 24

Fig. 25A

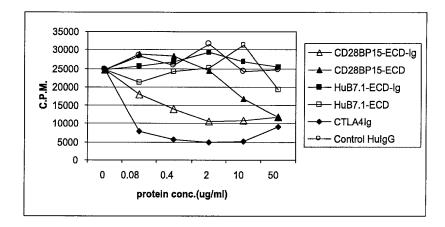


Fig. 25B

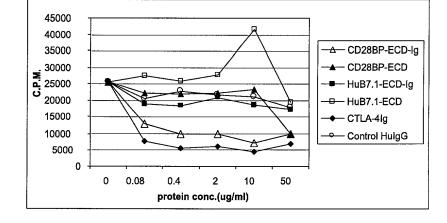


Fig. 25C

